



① 하우투머신



- → H-310, 270, Gyeonggigwagidae-ro, Siheung-si, Gyeonggi-do, 15073, Korea
- 010-2016-9313
- **5** 0504-981-5670 ceo@htmc.kr



₩ 주식회사 우아

- 20, Cheomdan-ro 285beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, 15607, Korea
- 010-2016-9313 **\(***** 031-433-9038
- 0504-981-5670







HOW TO MACHINE

"HOW TO MACHINE" HAS BEEN EXPERIENCED MANY YEARS IN THIS INDUSTRIAL MACHINE FIELD AND PROVIDE CUSTOMERS WITH VARIETY OF SOLUTION WHAT THEY NEEDS. In modern business environment age, In the base on High developed technology, "How to Machine" is aim to make more than detailing microsized, even more improved Al system. such a first half of industrial trends, It requires prodocutivty of manufacturing equipment, simultaneously high-degree of precision.

In the modern generation with the times, "How to machine " always analyze not only a variety of environments, precise needs for customers satisfaction but also provide high-quality customers centered solution which is our business motto. and Also HTMS are highly focusing on the fastest solution that causing many kind of worse issues from the company.



Company History

2018

07.23 Establishment of Company - Siheung Start-up Center

08.01 Government-funded projects

- Support projects for the origin of innovative start-ups

09.05 Patent application "Slag removal device for laser processing paper support plate"

09.13 Acquire Venture Certification

11.20 Appointment of Evaluation Committee for Small and Medium Business Technology Development Support Project- Representative Son Hyun-seung

11.27 Patent application "Slag removal device for laser processing paper support plate"

12.31 Technical data for large, small and medium enterprises and agricultural and fisheries cooperation foundation is impregnated

2019

02.15 Patent registration

"Slag removal device of laser processor support plate"

08.23 Patent application

"Slag removal device of laser processor support plate"

09.05 PCT application: KR/2019/011513

11.02 German International Idea Invention
New Product Exhibition (INEA) - Gold Prize Winner

2020

03.16 Government-funded Business Agreement
- Start-up Success Package Support Project

06.04 US Patent Application "Slag Removal Apparatus"

06.08 Transfer of Company - Gyeonggi University of Science and Technology 1st Small and Medium Business Hall

06.15 European Patent Application "Slag Removal Apparatus"

08.03 Government-sponsored business agreement
- "The stepping stone business project" for start-up
growth technology development project

10.01 Government Support Business Agreement - Export Support Program

10.12 Government Assistance Agreement - Commercialization Link Knowledge Property Evaluation Support Project

10.14 Establishment of WOOAH Corporation

10.20 China Patent Application "除渣装置"

11.13 Factory Registration

12.11 Obtaining ISO Certification

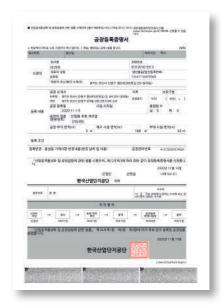






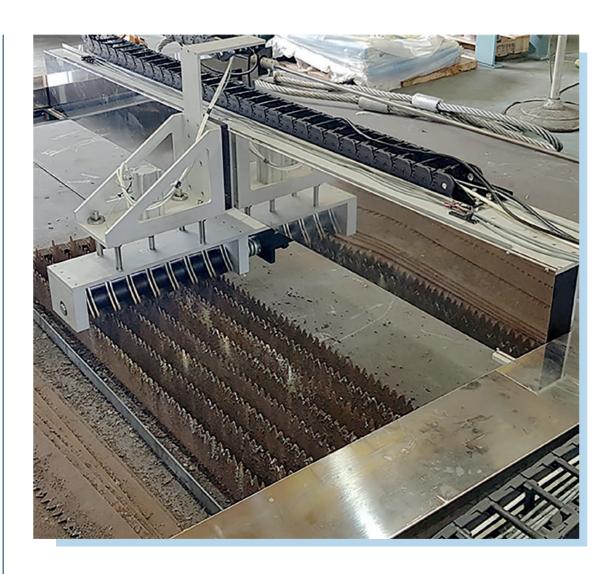






Major business

Scrape **Grid**



Grid Scraper

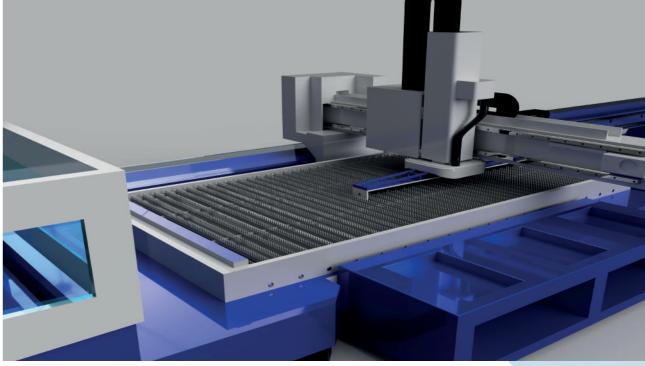
Laser processing machine in the process of creating material with Laser Processing Machine, Slag that caused by Grid make a lower precision, a collision with processor head and cause a lot of issues. in order to solve this issue by slag, We developed Grid Scraper "HTMS-2019 for removing slag.

HTMS-2019 get rid of slags of laser processor grid automaticly at the same time. while operating in the production process, we could not discontinue operation. And perform more efficient removing slag, so that it saves the cost causing by grid effectively.

Model no.	HTMS-2018	HTMS-2019	HTMS-2020
size(mm)	2,823×3,277×687	3,240×2,048×450	Customizing
Input voltage	220V 3P	220V 3P	0
Blade(row)	8(series)	10(bevel)	20(bevel)
Stroke	1,600×1,800×100	2,100×1,000×100	0
RPM	600	-	0
Operation pace	-	13.3(m/min)	0

HTMS-2019





HTMS-2020

Core-Competitiveness

Existing Technology

Range of removal

1 row

8/10/20 row

Removal ratio

Working method

Work by manual

Machine Automation



Saving the relating cost

Cost for replacing grid and cleaning Repair and Replace when break down the laser head Collecting possibly initial introduction cost within 1.5 year



Improvement of working environment

Operating time when removing slag and work intensity -> decrease possibly removing slag while operation



Industrial Accident prevention

Substitute machine automation from the labor work



<INEA 2019 Gold Prize>

Organization chart



Sohn, Hyeon-Seung president

2010 Master of Mechanical Engineering, Incheon National University Graduate School of Engineering

2010 Researcher at Hydrotec Corporation Research Institute

2011 Head of Research Institute of Hongwoo Industrial Machinery Co., Ltd.

2013 Jeonghan, Director of Research Institute for Precision Enterprise

2018 CEO of How to Machine

2018 Evaluation Committee member for Technology Development Support Project for Small and Medium Enterprises

2019 Evaluating the Public Purchase System

Completion of multiple national projects

10th Graduation of Young Entrepreneurship Military Academy

:

R&D

It is a department in charge of product development based on basic research and research results, and plays a key role in planning and conducting various projects of HOW TO MACHINE and maximizing business performance.

• • •

Manufacturing facility

S&MD

in charge of marketing product planning and sales, and I am in charge of planning, promoting, and selling products of How to Machine.

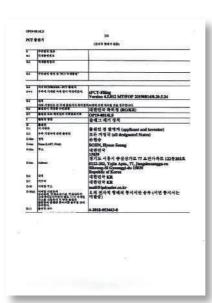
F&A

The Asset Management department responsible for the company's financial and accounting, managing the overall performance of How To Machine, and executing funds.

Current status of securing intellectual property rights



< INEA 2019 Gold Prize>



<PCT application form>

Electronic Aci	knowledgement Receipt
EFSID	29633844
Application Number:	16770066
International Application Number:	PCTWGBFM011513
Confirmation Number:	2018
Title of invention:	SJG BENGHLAFRINGS
First Named Inventor/Applicant Name:	Myeon Soung SCHN
Customer Number:	829
Filer:	Hassenilee
Filer Authorized By:	
Attorney Docket Number:	5149-628
Receipt Date:	84-309-3000
Filing Dele:	
Time Stampi	23/854
Application Type:	U.S. National Stage under 35-USC 321
Payment information:	
Submitted with Represent	per .
Figment Type	CMD
Payment was successfully received in RAMI	(940)
RAM confirmation Number	Excass-Michigan H2
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to-charge	indicated fees and credit any overpayment as follows:

<U.S. Patent>



<a domestic patent certificate>

nt of receipt	
The state of the s	EPO as stealgraded or elected Office) as full
PC7XX2010/011515	
10000021,7	
16 Ame 2020	
Estipac Patent Office, The Higgs	
PEPEAGA	
puckage-data.com	sp-suto-pit and
applicative-body sink	eg/11200 pet (5 p.)
SPECTRAKEPO-LastPEPEADL_sce offusion (of \$20.p.)	SPECTRANEPO-2 (MPEPEAGA) MINISTRANE (20 p.)
ABEX-1 pating PEACH new circs cla or pati(2 p.)	ASEX-Z-pd9FEPEAGA year plans, or ar pdf QS (s.)
CLMS-HWA-1 pelintint ASA_mess_pin 6_kppf (6.p.)	DESCHMA-LORPEPERANA_new_d te_(score (28 p.)
Chi-acure spoline org	
Orden	
15.Am=2029, 21.16 (CEST)	
	and of the form for some the Company place of the Company of the C

<European patent>

610041 我事了其即以文化二年(14·15年),我都是人也以外的"不到过年的 安全司 集成 1610 年的经济的,所主题 1810 年的经济的	2000年11月16日
NG-PRT, PCTKR20MINE S28% 2000	DE180 2581081
Milestratis Services	
中收入。 经银行	
N州的近北峰。 除由电阻	
國際事情最大中國國家的政 上域同時中級、中級人の原始社へ申請用亞拉丁杯、如中省、司合力 是的財化。然何是中國已进入中國同盟政治、風樂的子物用至申請可由 取行。	TOUGHDUR IN AND IN
上述同等中语,申请人の用的进入专同目家原程学部。后专查、符合也 集团建议,达阿菲申请已进入中部阿索和烈、孤岛的干的阿索申请与参考公	地点支集開催 100 集算者 10 加速入小回回電影 (20代日 編集的 1 代、海和土 頁 1 元、海和土 頁

<Chinese patent>